

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 30, 2005, 16:48:25 ; Search time 297 Seconds
(without alignments)
8983.569 Million cell updates/sec

Title: US-09-815-264-1

Perfect score: 1501
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Scoring table: IDENTITY NUC
Gapop 10_0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents NA: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	57.4	3.8	7218	2	US-08-232-463-14 Sequence 14, Appl
2	46.8	3.1	601	3	US-09-949-016-86857 Sequence 86857, A
3	46.8	3.1	247781	3	US-09-949-016-14193 Sequence 14193, A
4	46.2	3.1	50000	3	US-09-662-254B-25 Sequence 25, Appl
5	45.4	3.0	15252	3	US-09-949-016-13584 Sequence 13584, A
6	45	3.0	832	3	US-09-621-976-2813 Sequence 2813, Ap
7	44.8	3.0	4152	3	US-09-662-254B-9 Sequence 9, Appl
8	44.6	3.0	289	3	US-09-007-005-17 Sequence 17, Appl
9	44.6	3.0	1759	3	US-09-244-796-17 Sequence 17, Appl
10	43.8	2.9	196	3	US-09-807-258-13 Sequence 13, Appl
11	43.6	2.9	196	3	US-09-442-054A-42 Sequence 42, Appl
12	43.6	2.9	196	3	US-09-442-054A-42 Sequence 42, Appl
13	43.6	2.9	7218	2	US-08-232-463-14 Sequence 14, Appl
14	43.4	2.9	68580	3	US-09-949-016-15844 Sequence 15844, A
15	43.4	2.9	154746	3	US-09-827-688-8 Sequence 8, Appl
16	43.4	2.9	236474	3	US-09-949-016-13418 Sequence 13418, A
17	43.4	2.9	82612	3	US-09-949-016-16823 Sequence 16823, A
18	42.8	2.9	2109	3	US-09-370-838-153 Sequence 153, App
19	42.8	2.9	1181	3	US-09-854-133-153 Sequence 153, App
20	42.8	2.9	1181	3	US-09-949-016-16880 Sequence 16880, A
21	42.6	2.8	190078	3	US-09-949-016-12707 Sequence 12707, A
22	42.6	2.8	190078	3	US-09-949-016-17026 Sequence 17026, A
23	42.6	2.8	194937	3	US-09-949-016-17032 Sequence 17032, A
24	42.6	2.8	194937	3	US-09-949-016-17033 Sequence 17033, A

25	42.6	2.8	312957	3	US-09-949-001-31 Sequence 31, Appl
26	42.6	2.8	312972	3	US-09-949-001-34 Sequence 34, Appl
27	42.4	2.8	37875	3	US-09-949-016-1182 Sequence 13182, A
28	42.4	2.8	50000	3	US-09-662-254B-23 Sequence 23, Appl
29	42.4	2.8	141115	3	US-09-949-016-17490 Sequence 17490, A
30	42.2	2.8	1141	3	US-09-806-708B-22 Sequence 22, Appl
31	42.2	2.8	3510	3	US-09-265-585C-95 Sequence 95, Appl
32	42.2	2.8	1055	3	US-09-806-708B-23 Sequence 23, Appl
33	41.8	2.8	15271	3	US-09-949-016-17396 Sequence 15346, A
34	41.8	2.8	187595	3	US-09-949-016-15546 Sequence 15546, A
35	41.6	2.8	28129	3	US-09-949-016-17168 Sequence 17168, A
36	41.6	2.8	28129	3	US-09-949-016-17169 Sequence 17169, A
37	41.6	2.8	48336	3	US-09-949-016-11867 Sequence 11867, A
38	41.6	2.8	48336	3	US-09-949-016-11867 Sequence 17167, A
39	41.4	2.8	422592	3	US-09-949-016-14182 Sequence 14182, A
40	41.2	2.7	399	3	US-09-621-976-8976 Sequence 8976, Ap
41	41.2	2.7	101951	3	US-09-949-016-15648 Sequence 15648, A
42	41.2	2.7	264358	3	US-09-949-016-15725 Sequence 15725, A
43	41	2.7	18662	3	US-09-949-016-14655 Sequence 14655, A
44	40.8	2.7	11766	3	US-09-949-016-12531 Sequence 12531, A
45	40.8	2.7	11770	3	US-09-949-016-12720 Sequence 12720, A

ALIGNMENTS

RESULT 1
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
GENERAL INFORMATION:
APPLICANT: DORNER, F.
APPLICANT: SCHEIFLINGER, F.
APPLICANT: FALKNER, F. G.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 1800 Diagonal Road, Suite 500
CITY: Alexandria
STATE: VA
COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMU
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)836-9300
TELEFAX: (703)683-4109
TELEX: 839149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: pTZgpc-F18

US-08-232-463-14

Query Match	3.8%;	Score 57.4;	DB 2;	Length 7218;
Best Local Similarity	1.7%;	Pred. No. 0.00055;		
Matches	4;	Conservative 159;	Mismatches 70;	Indels 0;
			Gaps	0;

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RESULT 2
US-09-949-016-86857

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? GENERAL INFORMATION:
? APPLICANT: VENTER, J. Craig et al.
? TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
? TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
? FILE REFERENCE: CL001307
? CURRENT APPLICATION NUMBER: US/09/949,016
? PRIORITY FILING DATE: 2000-04-14
? PRIOR APPLICATION NUMBER: 60/241,755
? PRIOR FILING DATE: 2000-10-20
? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/231,498
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO: 86957
? LENGTH: 601
? TYPE: DNA
? ORGANISM: Human
? US-09-949-016-86857

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Query Match	3.1%;	Score 46.8;	DB 3;	Length 601;
Best Local Similarity	60.0%;	Pred. No. 0.085;		
Matches	78;	Conservative	0;	Mismatches 52;
			Indels	0;
			Gaps	0;

[illegible]

Qy	859	TCCTTCTCCT	868
Db	158	TCCTCCTTCT	167

RESULT 3
US-09-949-016-14193
; Sequence 14193, Application US/09949016

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; GENERAL INFORMATION:
; APPLICANT: ZENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

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? FILE REFERENCE: CLO01307
? CURRENT APPLICATION NUMBER: US/09/949,016
? CURRENT FILING DATE: 2000-04-14
? PRIOR APPLICATION NUMBER: 60/241,755
? PRIOR FILING DATE: 2000-10-20
? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/231,498
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 14193
? LENGTH: 247781
? TYPE: DNA
? ORGANISM: Human
? FEATURE:
? NAME/KEY: misc.feature
? LOCATION: (1)..(247781)
? OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14193

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Query Match	3.1%;	Score 46.8;	DB 3;	Length 247781;
Best Local Similarity	60.0%;	Pred. No. 1.2;		
Matches	78;	Conservative	0;	Mismatches 52; Indels 0; Gaps 0;

Qy	Db
739	12663
TCGACGCTCTTATCCACATCGCATCTTGATCGGTGCTTACTCATCCACATCGCTCT	TCCTTCCTCTTCTCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT

[illegible]

QY	859	TCCTTCTCCT	868
Db	126743	TCCTCCTTCT	126752

RESULT 4
US-09-662-254B-25

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: GENERAL INFORMATION:
: APPLICANT: Moyer, Richard W.
: APPLICANT: Li, Yi
: APPLICANT: Bawden, Alison Louise
: TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous
: TITLE OF INVENTION: Vertebrate Cells
: FILE REFERENCE: US-221C1X1
: CURRENT APPLICATION NUMBER: US/09/662,254B
: CURRENT FILING DATE: 2000-09-14
: PRIOR APPLICATION NUMBER: 09/086,651
: PRIOR FILING DATE: 1998-05-29
: PRIOR APPLICATION NUMBER: 60/224,479
: PRIOR FILING DATE: 2000-08-10
: NUMBER OF SEQ ID NOS: 80
: SOFTWARE: Patentin version 3.1
: SEQ ID NO 25
: LENGTH: 50000
: TYPE: DNA
: ORGANISM: Amsacta moorei entomopoxvirus
: US-09-662-254B-25

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Query Match	Score	DB	Length
3.1%	46.2	3	50000

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Db 10452 AAAAAAATGTATTTTAAATATTTTAAATGGATTTATTTAGAAAATATATATTAATPAAAAAG 10511

QY 220 GAAGAAATATGACCGATGTGTGAGACATGTTTGTCTTTTATTAATAGTCACAT 279

Db	10512	AAAAAATATATTTATGATATGTTAGAAATTTATATATTAATTTGTTTTCACATTACT	10571
Qy	280	GTCCCTTTTATATAGAAATTTAAATCTTGTGTTTATTTATAGAAACCATCAAGAAAAA	339
Db	10572	ATATATGTTTAAAAAATATATAATATATGATTAATGATTGAATATATATAATAAAT	10633
Qy	340	AAGAGAT 346	
Db	10632	TATATAT 10638	

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RESULT 5
US-09-949-016-13584
; Sequence 13584, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: SeqSeq for Windows Version 4.0
; SEQ ID NO 13584
; LENGTH: 15252
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13584

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[illegible]

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RESULT 6
US-09-621-976-2813/c
; Sequence 2813, Application US/09621976
; Patent No. 66339063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J. B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J. Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins
; FILE REFERENCE: GENSET.054P2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 2813
; LENGTH: 832
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 235..399
US-09-621-976-2813
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[illegible]

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RESULT 7
US-09-662-254B-9
; Sequence 9, Application US/09662254B
; Patent No. 6933145
; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Li, Yi
; APPLICANT: Bawden, Alison Louise
; TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous
; TITLE OF INVENTION: Vertebrate Cells
; FILE REFERENCE: UF-221C1XC1
; CURRENT APPLICATION NUMBER: US/09/662,254B
; CURRENT FILING DATE: 2000-09-14
; PRIOR APPLICATION NUMBER: 09/086,651
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 60/1224,479
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 4152
; TYPE: DNA
; ORGANISM: Amsacta moorei entomopoxvirus
US-09-662-254B-9

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[illegible]

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RESULT 8
US-09-007-005-17/c
; Sequence 17, Application US/09007005B
; Patent No. 6258558
; GENERAL INFORMATION:
; APPLICANT: Szostak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihne
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: FUSIONS
; FILE REFERENCE: 00786/350003
; CURRENT APPLICATION NUMBER: US/09/007, 005B
; CURRENT FILING DATE: 1998-01-14
; EARLIER APPLICATION NUMBER: 60/035, 963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064, 491
; EARLIER FILING DATE: 1997-11-06
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 289
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
; NAME/KEY: misc_feature
; LOCATION: (1)..(289)
; OTHER INFORMATION: n = A,T,C or G
; US-09-007-005-17

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/ RESULT 9
/ US-09-244-796-17/c
/ Sequence 17, Application US/09244796
/ Patent No. 6281344
/ GENERAL INFORMATION:
/ APPLICANT: Szostak, Jack W.
/ APPLICANT: Roberts, Richard W.
/ APPLICANT: Liu, Rihc
/ TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
/ TITLE OF INVENTION: FUSIONS
/ FILE REFERENCE: 00786/350007
/ CURRENT APPLICATION NUMBER: US/09/244, 796
/ CURRENT FILING DATE: 1999-02-05
/ EARLIER APPLICATION NUMBER: 60/035,963
/ EARLIER FILING DATE: 1997-01-27
/ EARLIER APPLICATION NUMBER: 60/064,491
/ EARLIER FILING DATE: 1997-11-06
/ EARLIER APPLICATION NUMBER: 09/007,005
/ EARLIER FILING DATE: 1998-01-14
/ NUMBER OF SEQ ID NOS: 33
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO: 17
/ LENGTH: 289
/ TYPE: RNA
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? ORGANISM: Artificial Sequence
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? FEATURE:
? OTHER INFORMATION: Translation template
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? NAME/KEY: misc_feature
? LOCATION: (1...1289)
? OTHER INFORMATION: n = A,T,C or G
US-09-244-796-17

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Dd
176 SYNNNSYNNNSYNNTNNSYNNNSYNNTNNSYNNNSYNNNSYNNNSYNNNSYNNNY 117

Dy
854 CCTCTCCTCTCTCCTGCAGCATGCC 881

Dd
116 SYNNTNSYNNTNSYNNTNSYNNTSYNY 89

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RESULT 10
US-09-807-258-13
; Sequence 13, Application US/09807258
; Patent No. 6670166
; GENERAL INFORMATION:
; APPLICANT: E. I. du Pont de Nemours and Company
; TITLE OF INVENTION: Arthropod Protein Disulfide
; FILE REFERENCE: BB-1253 PCT
; CURRENT APPLICATION NUMBER: US/09/807,258
; CURRENT FILING DATE: 2001-06-11
; PRIOR APPLICATION NUMBER: 60/104,376
; PRIOR FILING DATE: 1998-10-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 13
; LENGTH: 1759
; TYPE: DNA
; ORGANISM: Scolopendra canidens DS
US-09-807-258-13

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Query Match	2.9%	Score 43.8;	DB 3;	Length 1759;
Best Local Similarity	51.8%;	Pred. No. 0.77;		
Matches	99;	Conservative	0;	Mismatches 92;
			Indels	0;
			Gaps	0

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Db	1563	TCAGTAAAGACAAATTTTATTTTATTTTAAAGGAATTAAGAAATGTAAGAAATCAATTAATGATA	1622
QY	215	ATGATGAAAGAAAATATGACCGATGTGGTGAGACATGTTTTCGTCTTTTATTTATTTAAGA	274
Db	1623	ATTTAAATTTAGAGTGCCTTATGTGTGGTGAAGATTCCTTATTTCTTTGTAAGAT	1682
QY	275	TCACCTGTCCTTTTATTTAATAGAAAATTTAAATGTTGTTATTTTATTAAGAAACCATCAAG	334
Db	1683	AAAATGCTGAAAATTTAATTCGAAAATTAATTTTATATAATTAAGTTTTCACAAAAGA	1742
QY	335	AAAAAAGAGA	345
Db	1743	AAAAAAAAAAAA	1753

RESULT 11
US-09-442-054A-42
; Sequence 42, Application US/09442054A
; Patent No. 6770738
; GENERAL INFORMATION:
; APPLICANT: Eckel, David J.

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 30, 2005, 15:02:34 ; Search time 1229 Seconds
(Without alignment)
9339.606 Million cell updates/sec

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

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- 3: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq:*
- 4: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq:*
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- 8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
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- 10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	129.2	8.6	2223	7 US-10-437-963-6739	Sequence 6739, Ap
C 2	106.2	7.1	32548	7 US-10-459-262A-5	Sequence 5, Appli
C 3	106.2	7.1	69300	7 US-10-415-058-6	Sequence 6, Appli
C 4	105	7.0	462	7 US-10-437-963-29590	Sequence 29590, A
C 5	104.6	7.0	369	7 US-10-437-963-71836	Sequence 71836, A
C 6	90.2	6.0	415	7 US-10-437-963-47539	Sequence 47539, A
C 7	87.2	5.8	363	7 US-10-437-963-74449	Sequence 74449, A
C 8	85.6	5.7	99090	8 US-10-656-394A-13	Sequence 13, Appli
C 9	82.8	5.5	8416	2 US-08-910-386A-4	Sequence 4, Appli
C 10	74.6	5.0	624	7 US-10-437-963-58070	Sequence 58070, A
C 11	72.4	4.8	524	7 US-10-437-963-91356	Sequence 91356, A
C 12	71	4.7	421	7 US-10-437-963-33088	Sequence 33088, A
C 13	68.8	4.6	2000	7 US-10-260-238-1694	Sequence 1694, Ap
C 14	68.2	4.5	365	7 US-10-437-963-62540	Sequence 62540, A
C 15	63	4.2	1965	7 US-10-437-963-13893	Sequence 13893, A
C 16	62.4	4.2	1320	7 US-10-437-963-64389	Sequence 64389, A
C 17	61.8	4.1	1462	7 US-10-437-963-17780	Sequence 17780, A
C 18	61.6	4.1	342	7 US-10-437-963-83837	Sequence 83837, A
C 19	59.4	4.0	2000	7 US-10-260-238-2192	Sequence 2192, Ap
C 20	57	3.8	908	7 US-10-437-963-18295	Sequence 18295, A
C 21	55.4	3.7	333	7 US-10-437-963-95933	Sequence 95933, A
C 22	55	3.7	2253	7 US-10-437-963-26525	Sequence 26525, A
C 23	53.6	3.6	480	7 US-10-437-963-59319	Sequence 59319, A

24	52.6	3.5	231	7 US-10-437-963-15691	Sequence 15691, A
25	52.6	3.5	276	8 US-10-425-115-73886	Sequence 73886, A
C 26	52.2	3.5	1136	7 US-10-437-963-42268	Sequence 42268, A
C 27	52	3.5	288	7 US-10-437-963-2697	Sequence 2697, Ap
C 28	52	3.5	32548	7 US-10-459-262A-5	Sequence 5, Appli
C 29	52	3.5	69300	7 US-10-415-058-6	Sequence 6, Appli
C 30	51.8	3.5	203	7 US-10-437-963-34694	Sequence 34694, A
C 31	51.2	3.4	665	8 US-10-425-115-56996	Sequence 56996, A
C 32	51	3.4	946	7 US-10-437-963-43950	Sequence 43950, A
C 33	51	3.4	946	7 US-10-437-963-56365	Sequence 56365, A
C 34	51	3.4	2000	7 US-10-260-238-1607	Sequence 1607, Ap
C 35	50.6	3.4	430	8 US-10-425-115-162104	Sequence 162104, A
C 36	50.4	3.4	615	7 US-10-437-963-31611	Sequence 31611, A
C 37	50.4	3.4	1513	7 US-10-437-963-29924	Sequence 29924, A
C 38	50.4	3.4	3789	8 US-10-723-860-6201	Sequence 6201, Ap
C 39	49.8	3.3	367378	6 US-10-312-841-1	Sequence 1, Appli
C 40	49.4	3.3	461	3 US-09-814-953-17724	Sequence 17724, A
C 41	49.2	3.3	393	7 US-10-437-963-67168	Sequence 67168, A
C 42	49.2	3.3	423	3 US-09-918-995-7147	Sequence 7147, Ap
C 43	49	3.3	514	7 US-10-424-599-104895	Sequence 104895, A
C 44	48.4	3.2	20311	8 US-10-719-993-7068	Sequence 7068, Ap
C 45	47.8	3.2	1337	9 US-10-779-543-5579	Sequence 5579, Ap

ALIGNMENTS

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RESULT 1
US-10-437-963-6739/c
: Sequence 6739, Application US/10437963
: Publication No. US2004012343A1
: GENERAL INFORMATION:
: APPLICANT: La Rosa, Thomas J.
: APPLICANT: Kovalic, David K.
: APPLICANT: Zhou, Yihua
: APPLICANT: Cao, Yongwei
: APPLICANT: Wu, Wei
: APPLICANT: Boukharov, Andrey A.
: APPLICANT: Barbaruk, Brad
: TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
: FILE REFERENCE: 38-21(53221)B
: CURRENT APPLICATION NUMBER: US/10/437,963
: CURRENT FILING DATE: 2003-05-14
: NUMBER OF SEQ ID NOS: 204966
: SEQ ID NO 6739
: LENGTH: 2223
: TYPE: DNA
: ORGANISM: Oryza sativa
: FEATURE:
: OTHER INFORMATION: Clone ID: PAT_MRT4530_133C.1
US-10-437-963-6739

Query Match      8.6%; Score 129.2; DB 7; Length 2223;
Best Local Similarity 70.7%; Pred. No. 3.7e-21;
Matches 208; Conservative 0; Mismatches 68; Indels 18; Gaps 2;

C 1  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 2  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 3  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 4  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 5  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 6  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 7  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 8  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 9  CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 10 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 11 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 12 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 13 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 14 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 15 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 16 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 17 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 18 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 19 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 20 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 21 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 22 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||
C 23 CCTGATCAGCAGGCGGAGTGGGCGGCTTCTCCAGCGGCGGCTTACCCCTTCTCTTGCAGG 959
      |||

```



```
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 7449
LENGTH: 363
TYPE: DNA
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_74634C.1
US-10-437-963-7449
```

Query Match
Best Local Similarity 83.1%; Pred. No. 4.2e-11;
Matches 123; Conservative 0; Mismatches 23; Indels 2; Gaps 2;

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QY 16 GGGGATAAATTCACCAAGTGTGATGGGACTGAG-AAATGTAGCCCGTTATGTTGA 74
DB 122 GGGCAAAAGTTTCCCGGTGTATCAGGCTGTGAAATATAGCCCGCTCGTGTGA 181
QY 75 C-GGGCGGGAGTGTGAATTTTATCACCATGGGAGCGGGAGCTGTGATGACCCCTG 133
DB 182 CGGGGACAGGAGCGGTGAATTTTATCACCAGCTGACGGGAGCGGGAGATGACCCCG 241
QY 134 ACCGTGAATTCCTCCCTGTCATCTCTAA 161
DB 242 ACCGTGAATTAAGTGTGCTCTCTAA 269
```

RESULT 8
US-10-656-394A-13/C
Sequence 13, Application US/10656394A
Publication No. US20040210957A1
GENERAL INFORMATION:
APPLICANT: Wang et al.
TITLE OF INVENTION: Cloning and Characterization of the
FILE REFERENCE: 035718/252062
CURRENT APPLICATION NUMBER: US/10/656,394A
CURRENT FILING DATE: 2003-09-05
NUMBER OF SEQ ID NOS: 16
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 99090
TYPE: DNA
ORGANISM: Oryza minuta
FEATURE:
NAME/KEY: misc feature
LOCATION: 23216
OTHER INFORMATION: n = A,T,C or G
US-10-656-394A-13

Query Match
Best Local Similarity 82.4%; Pred. No. 2.1e-09;
Matches 122; Conservative 0; Mismatches 24; Indels 2; Gaps 2;

```
QY 16 GGGGATAAATTCACCAAGTGTGATGGGACTGAG-AAATGTAGCCCGTTATGTTGA 74
DB 25478 GGGCAAAAGTTTCCCGGTGTATCAGGCTGTGAAATATAGCCCGCTCGTGTGA 25419
QY 75 C-GGGCGGGAGTGTGAATTTTATCACCATGGGAGCGGGAGCTGTGATGACCCCTG 133
DB 25418 CGGGGACAGGAGCGGTGAATTTTATCAGCTCGTGTGACGGGAGCGGGAGATGACCCCG 25359
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QY 134 ACCGTGAATTCCTCCGTCATCTCTAA 161
DB 25358 AAGTGAATTAAGTGTGCTCTCTAA 25331
```

RESULT 9
US-08-910-386A-4
Sequence 4, Application US/08910386A
Publication No. US20020092041A1
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Hulbert, Scott
APPLICANT: Richter, Todd
TITLE OF INVENTION: Procedures and Materials for Conferring
NUMBER OF SEQUENCES: 53
TITLE OF INVENTION: Disease Resistance in Plants
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/910,386A
FILING DATE: 13-AUG-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058950US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 8416 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Oryza longistaminata
STRAIN: IRBB21
POSITION IN GENOME:
CHROMOSOME/SEGMENT: 11
MAP POSITION: 11q, RG103
FEATURE:
NAME/KEY: CDS
LOCATION: join(4771..7384, 7676..8052)
OTHER INFORMATION: /product= "receptor kinase-like protein"
OTHER INFORMATION: /note= "Xa21 gene family member A1"
FEATURE:
NAME/KEY: misc feature
LOCATION: 7432..7614
OTHER INFORMATION: /note= "Snap-O11, transposon-like"
OTHER INFORMATION: element"
US-08-910-386A-4

Query Match
Best Local Similarity 61.2%; Pred. No. 2.8e-09;
Matches 240; Conservative 0; Mismatches 137; Indels 15; Gaps 6;

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QY 335 AAAAAAGAGTCGAGAGGAGAAAGACGAGCAAGCCGCTCAGGCTGGGGTGT 394
DB 1300 AATCAAGAGTAGTAGAGATCGCTACGATCTACTGTGCAAGATCAGGTGTAGGCGT 1359
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QY 395 CTTTGTGGTGTAGATCTTTTGTCTGTGNTAGAAATTAGTGTATT--TCC 452
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 91356
; LENGTH: 524
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_8993C.1
US-10-437-963-91356
Db 1595 TTTTAAAAAACCCGACCTTTAATATATATAGGTGCTTTCTTTAA-AAACC 1653
QY 687 ACACCTATATATATATATAGTGCCTTCT 718
Db 1654 ACACCAATATATATATATAGTGCCTTCT 1684
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RESULT 10
US-10-437-963-58070/c
; Sequence 58070, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 58070
; LENGTH: 624
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_59821C.1
US-10-437-963-58070

Query Match 5.0%; Score 74.6; DB 7; Length 624;
Best Local Similarity 83.7%; Pred. No. 7.7e-08;
Matches 108; Conservative 0; Mismatches 19; Indels 2; Gaps 2;

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QY 4 CGCTGTAACACGGGGGATTAATTCACCGCTGTATGGGATCGGATGAATGTAGCC 62
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 33088
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37234C.1
US-10-437-963-33088
Db 305 CGGATTAACCGGGGATTAATTCACCGTATGGGATCGGATGAATGTAGCC 246
QY 63 CGTATGATGTGAC-GGGGCGGGGATGTGAATTTTATCACCATGTGGGACGGGACGTG 121
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 33088
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37234C.1
US-10-437-963-33088
Db 245 CGTGTGTTTACCGGGGCGGGGACGTAAATTTATCACCATGTGGGACGGGACGTG 186
QY 122 ATGTGACCC 130
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 33088
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37234C.1
US-10-437-963-33088
Db 185 ATGTGACCC 177
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RESULT 11
US-10-437-963-91356/c
; Sequence 91356, Application US/10437963

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; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 91356
; LENGTH: 524
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_8993C.1
US-10-437-963-91356
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Query Match 4.8%; Score 72.4; DB 7; Length 524;
Best Local Similarity 63.7%; Pred. No. 2.5e-07;
Matches 144; Conservative 0; Mismatches 76; Indels 6; Gaps 2;

```
QY 461 AAAAACCCTATATAGGACCGGTCTTATAGTCCGGTTCATTTAAACCGACACTATA 520
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 33088
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37234C.1
US-10-437-963-33088
Db 479 AAAAACCCCTATATAGGACCGGTCTTATAGTCCGGTTCATTTAAACCGACACTATA 420
QY 521 GGCCTTTTCCACTCTGCTTCGACATATGAATTAATTAAGATCGACACTTAAAGAT 580
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 33088
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37234C.1
US-10-437-963-33088
Db 419 GGCATTTTGCACCTCCCATGATGAAATATTAAGAACCGTCACCTTAATTAATTAAT 360
QY 581 TATAGTACAG-TTCTCAAGAAACCGATTAATATATAGTGCAGTCT----- 634
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 33088
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37234C.1
US-10-437-963-33088
Db 359 TAAAGTCCGGTTTATTTGTTAAACCGTACCAATACATATATATATATATATAT 300
QY 635 AGCAAAAACCGGTACAAATATATATAGTCCGGTCTTTTAA 680
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 33088
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37234C.1
US-10-437-963-33088
Db 299 AGAACTTACCTATATATATATATATATATATATATATATATATATATATATAT 254
```

RESULT 12
US-10-437-963-33088
; Sequence 33088, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 33088
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37234C.1
US-10-437-963-33088

Query Match 4.7%; Score 71; DB 7; Length 421;

Best Local Similarity 82.7%; Pred. No. 4.9e-07;
Matches 105; Conservative 0; Mismatches 20; Indels 2; Gaps 2;

QY 12 CCACGGGGAATTAATTCACCGCTGCTGATGCGAGCTGAGAA-ATGAGCCCGCTTATG 70
|||
DB 295 CCCCCGGAATAATATCCCGCTGCTGATGCGAGGAGGAAATGACCCCGCTGCTG 354
QY 71 TTGAC-GGGGCGGGGATGTTGAATTTTATCACCATGGGAGCGGAGCTGATGTGACC 129
|||
DB 355 TTACCGGGGCGGGGAGCGGATTAATTTTTCACCGGCTGATGGGAGCGAGCGTGACC 414
QY 130 CCTGACG 136
|||
DB 415 CCCGACG 421

RESULT 13
US-10-260-1694

; Sequence 1694, Application US/10260238
; Publication No. US20040016025A1

; GENERAL INFORMATION:

; APPLICANT: Budworth, Paul R.
; APPLICANT: Moughamer, Todd G.
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Rumiaki
; APPLICANT: Kreps, Joel
; APPLICANT: Provart, Nicholas
; APPLICANT: Rieke, Darrell
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: PROMOTERS FOR REGULATION OF PLANT EXPRESSION
; FILE REFERENCE: 6011-NP
; CURRENT APPLICATION NUMBER: US/10/260,238
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/325,448
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 6077
; SEQ ID NO 1694
; LENGTH: 2000
; TYPE: DNA
; ORGANISM: Oryza sativa
US-10-260-238-1694

Query Match 4.6%; Score 68.8; DB 7; Length 2000;

Best Local Similarity 65.8%; Pred. No. 4e-06;
Matches 150; Conservative 0; Mismatches 67; Indels 11; Gaps 3;

QY 460 AAAAAAACCATAAGGACCGGCTTATAGTCCGGTTCATTAAAAACCGACCTAT 519
|||
DB 1537 ACAAATATCAATAGTGTGCGCATATAGTCCGGAAGTACTAAAAACCGACCTAT 1596
QY 520 AGGCTTTTCCAACTGCTTCCGACATATGAATTAATAAGATGACACCTTTAAGC- 578
|||
DB 1597 ATGCTTTTCCCACTTCCACAGC---TTGAATTCCTTAAAAACCGACACCTTTAAGCA 1652
QY 579 ATTATAGTACGATTCCTCAAGAAAAACGATAACATAATATGAGTCCAGTTCTGCA 638
|||
DB 1653 ACTATAGTCTGCTTCTTAATTAAGAACCGACACTTATTTCTATAGTGCGGCTTTTATA 1712
QY 639 CAAAAACCGG-----TACAATATTATAGTCCCGGCTTTTAAAA 680
|||
DB 1713 GAAAAAATCGGACCTTAAATATATATAGTGTGCGTTAATTAATA 1760

RESULT 14
US-10-437-963-62540/c
; Sequence 62540, Application US/10437963

; Publication No. US20040123343A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 62540
; LENGTH: 365
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_63869C.1
US-10-437-963-62540

Query Match 4.5%; Score 68.2; DB 7; Length 365;

Best Local Similarity 82.6%; Pred. No. 2.3e-06;
Matches 90; Conservative 0; Mismatches 18; Indels 1; Gaps 1;

QY 60 CCCCCTTATGCTTGAC-GGGGCGGGGATGCTGAAATTTTATCACCATGGGAGCGGAGG 118
|||
DB 286 CCCCCTGCTGCTGAGCGGGGCGGGATGCTGAATTTTAAACCGGCTGACGGGAGCG 227
QY 119 TGGATGTGACCCCTGACGGTGAATCCCGTGCATCTCTAAACACTA 167
|||
DB 226 CCGCGTGACCCCCGACGGTGAATTCACATTGCCATCTCTATGCCGA 178

RESULT 15

US-10-437-963-13893

; Sequence 13893, Application US/10437963

; Publication No. US20040123343A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 13893
; LENGTH: 1965
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(1965)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_19849C.1
US-10-437-963-13893

Query Match 4.2%; Score 63; DB 7; Length 1965;

Best Local Similarity 83.9%; Pred. No. 0.00011;
Matches 94; Conservative 0; Mismatches 16; Indels 2; Gaps 2;

QY 17 GGGATAATTCACACGTGCTGATCGGACTGGAG-AAATGTAGCCCCGTTATGCTTGAC 75

Db 1605 GNGAAAAATTCAACCGGTGTGATCGGGGCTGATGAAAAATGAGCCCGTCGTGTTGAC 1664
Qy 76 -GGGGCGGGGATGTGAATTTATCACCATGGGACGGGACGTGATGTG 126
Db 1665 AGGGGCGGGACAGTGAATTATCACCGCGGTGACGGGATGTGAGGTG 1716

Search completed: December 30, 2005, 19:45:53
Job time : 1335 secs

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OM nucleic - nucleic search, using sw model

Run on: December 30, 2005, 14:42:14, Search time 258 Seconds
(Without alignments)
3049.872 Million cell updates/sec

Title: US-09-815-264-1
Perfect score: 1501
Sequence: 1 gtcgcgtgcaccacgcgggga.....tttgatgaagagatcgcgc 1501

Scoring table: IDENTITY NUC
Gapop 10_0, Gapext 1.0

Searched: 4172979 seqs, 262114271 residues
Total number of hits satisfying chosen parameters: 8345958

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

Published Applications_NA_New.*
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5: /cgn2_6/ptodata/1/pubpna/US05_NEW_PUB.seq.*
6: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
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9: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result NO	Score	Query Match	Length	ID	Description
1	44.4	3.0	19233	US-10-240-708-46	Sequence 46, Appl
2	44.4	2.9	103660	US-10-995-561-13253	Sequence 13253, A
3	43.4	2.9	6306	US-10-240-708-49	Sequence 49, Appl
4	42.8	2.9	2581	US-10-750-185-27903	Sequence 27903, A
5	42.8	2.9	176503	US-11-121-086-53	Sequence 53, Appl
6	42.8	2.9	217623	US-11-112-908-33	Sequence 33, Appl
7	42.6	2.8	25458	US-10-995-561-13390	Sequence 13390, A
8	42.6	2.8	189252	US-11-121-086-54	Sequence 54, Appl
9	42.6	2.8	321019	US-10-995-561-13204	Sequence 13204, A
10	42.6	2.8	6113	US-10-240-708-13	Sequence 13, Appl
11	42	2.8	175023	US-11-121-086-18	Sequence 18, Appl
12	41.2	2.7	167116	US-11-121-086-44	Sequence 44, Appl
13	41	2.7	126552	US-11-121-086-1	Sequence 1, Appl
14	41	2.7	191684	US-11-121-086-2	Sequence 2, Appl
15	40.8	2.7	1608	US-10-750-185-36944	Sequence 36944, A
16	40.8	2.7	4982	US-10-276-233A-17	Sequence 17, Appl
17	40.8	2.7	168516	US-11-121-086-3	Sequence 3, Appl
18	40.4	2.7	70513	US-10-995-561-13368	Sequence 13368, A
19	40.4	2.7	153376	US-11-121-086-5	Sequence 5, Appl
20	40.4	2.7	172543	US-11-121-086-6	Sequence 6, Appl
21	40	2.7	139054	US-11-121-086-96	Sequence 96, Appl
22	40	2.7	1080000	US-10-928-446A-1	Sequence 1, Appl
23	40	2.7	1080000	US-10-928-446A-181	Sequence 181, Appl

24	40	2.7	1080000	US-10-928-446A-183	Sequence 183, App
25	40	2.7	1080000	US-10-928-446A-185	Sequence 185, App
26	40	2.7	1080000	US-10-928-446A-187	Sequence 187, App
27	40	2.7	1080000	US-10-928-446A-189	Sequence 189, App
28	40	2.7	1080000	US-10-928-446A-191	Sequence 191, App
29	40	2.7	1080000	US-10-928-446A-193	Sequence 193, App
30	40	2.7	1080000	US-10-928-446A-195	Sequence 195, App
31	40	2.7	1080000	US-10-928-446A-197	Sequence 197, App
32	40	2.7	1080000	US-10-928-446A-199	Sequence 199, App
33	40	2.7	1080000	US-10-928-446A-201	Sequence 201, App
34	40	2.7	1082144	US-11-117-187-211	Sequence 211, App
35	39.6	2.6	187745	US-11-121-086-83	Sequence 83, Appl
36	39.4	2.6	6866	US-10-240-708-19	Sequence 19, Appl
37	39.4	2.6	103931	US-11-117-187-193	Sequence 193, Appl
38	39.4	2.6	191684	US-11-121-086-2	Sequence 2, Appl
39	39.4	2.6	317876	US-10-995-561-13227	Sequence 13227, A
40	39.2	2.6	6866	US-10-240-708-20	Sequence 20, Appl
41	39.2	2.6	154548	US-11-121-086-33	Sequence 33, Appl
42	39	2.6	37907	US-10-995-561-13504	Sequence 13504, A
43	38.8	2.6	137935	US-10-995-561-13278	Sequence 13278, A
44	38.6	2.6	126552	US-11-121-086-1	Sequence 1, Appl
45	38.6	2.6	172147	US-11-112-908-22	Sequence 22, Appl

ALIGNMENTS

RESULT 1
US-10-240-708-46
Sequence 46, Application US/10240708
Publication No. US20050282157A1
GENERAL INFORMATION:
APPLICANT: OLEK, Alexander
APPLICANT: PIEPENROCK, Christian
APPLICANT: BERLIN, Kurt
TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
FILE REFERENCE: 5013.1012
CURRENT APPLICATION NUMBER: US/10/240.708
PRIORITY FILING DATE: 2002-10-03
PRIORITY APPLICATION NUMBER: PCT/EP01/03971
PRIORITY FILING DATE: 2001-04-06
PRIORITY APPLICATION NUMBER: DE 10019058.8
PRIORITY FILING DATE: 2000-04-06
PRIORITY APPLICATION NUMBER: DE 10019173.8
PRIORITY FILING DATE: 2000-04-07
PRIORITY APPLICATION NUMBER: DE 10032529.7
PRIORITY FILING DATE: 2000-06-30
PRIORITY APPLICATION NUMBER: DE 10043826.1
PRIORITY FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 98
SEQ ID NO 46
LENGTH: 19233
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
NAME/KEY: unsure
LOCATION: (34, 69, 288, 298, 685, 736, 1046, 1083, 1091, 1104, 1336)
FEATURE:
NAME/KEY: unsure
LOCATION: (1578, 1581, 1584, 2017, 2228, 2668, 5066, 5388, 5447, 5469..5470)
FEATURE:
NAME/KEY: unsure
LOCATION: (5670, 6253, 6894, 7184, 7301, 7531, 7874, 8068, 8111, 8878)
FEATURE:
NAME/KEY: unsure
LOCATION: (9069, 9075, 9084, 9159, 9229, 9355, 9367, 9416, 9419, 9517)
FEATURE:
NAME/KEY: unsure
LOCATION: (9534, 10598, 10602, 11159, 11175, 11204, 11358, 11578, 12206)
FEATURE:

Query Match	2.9%	Score 44;	DB 6;	Length 103660;
Best Local Similarity	54.3%;	Pred. No. 2.1;		
Matches	89;	Conservative	0;	Mismatches 75;
				Indels 0;
				Gaps 0.

RESULT 4
 US-10-750-185-27903
 ; Sequence 27903, Application US/10750185
 ; Publication No. US2005026063A1
 ; GENERAL INFORMATION:
 ; APPLICANT: NMI GENOMICS, INC.
 ; APPLICANT: DENISE, Sue K.


```

1  APPLICANT: KERR, Richard
2  APPLICANT: ROSENFELD, David
3  APPLICANT: HOLM, Tom
4  APPLICANT: BATES, Stephen
5  APPLICANT: FANTIN, Dennis
6  TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
7  FILE REFERENCE: MM11100-2
8  CURRENT APPLICATION NUMBER: US/10/750.185
9  CURRENT FILING DATE: 2003-12-31
10 PRIOR APPLICATION NUMBER: US 60/437,482
11 PRIOR FILING DATE: 2002-12-31
12 NUMBER OF SEQ ID NOS: 64932
13 SOFTWARE: PatentIn version 3.1
14 SEQ ID NO 27903
15 LENGTH: 2581
16 TYPE: DNA
17 ORGANISM: Bovine 19866880501204
18 US-10-750-185-27903

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	Query Match	2.9%	Score 42.8	DB 6	Length 2581
	Best Local Similarity	53.3%	Pred. No. 0.4		
	Matches 112	Conservative 0	Mismatches 97	Indels 1	Gaps 1
QY	131 CTGACGGTGAATCCCGTGGCATCTCTAAACCTACAAATATTTTAAATATGTAAAGA				190
Db	2177 CTGTGAAGAAAGAACAGTAGTGAATACCTAAAGATTAATAATTCCTCAGATATGGATG-				2235
QY	131 TAAATATAAGAAATATGGGATCATGTGAAAGAAATATGACCGATGTGGTGACAT				250
Db	2236 TCTAATGACACATTGGGGAATAATGGGAATGATTAAGATTTCCAAATAGATATGACGA				2299
QY	251 GTTTTCGTCCTTTTTTATATATAGATCACTGTCCTTTTTTAAATTAAATTTATGTTT				310
Db	2296 CTAATTCCTTTTTTTTTTTTTTTTTTTTGGCTTTCAAGTAATTTTTTAAATTAATATTAATTT				2355
QY	311 GTTATTTTATGAACAACATCAAGAAAAA				340
Db	2356 ATTTTAATTAATGTTAAATTAATAACCAAGAAA				2385

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RESULT 5
US-11-121-086-53
Sequence 53, Application US/11121086
Publication No. US20050266459A1
GENERAL INFORMATION:
APPLICANT: POULSEN, TIM S.
APPLICANT: NIELSEN, KRISTEN V.
TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
FILE REFERENCE: 09118.6000-00000
CURRENT APPLICATION NUMBER: US/11/121, 086
CURRENT FILING DATE: 2005-05-04
PRIOR APPLICATION NUMBER: 60/567,570
PRIOR FILING DATE: 2004-05-04
NUMBER OF SEQ ID NOS: 107
SOFTWARE: Patentin version 3.3
SEQ ID NO 53
LENGTH: 176503
TYPE: DNA
ORGANISM: Homo sapiens
US-11-121-086-53

```

[illegible]

QY 851 CCTCCTCCTCCTTC 864
||| ||| | ||
Db 112995 CCCTCTCCCACTC 113008

```

RESULT 6
US-11-112-908-33
; Sequence 33, Application US/11112908
; Publication No. US20050260659A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Cole
; APPLICANT: Davis, Lisa M.
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112,908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 33
; LENGTH: 217623
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-33

```

	Query Match	Similarity	2.9%; Best Local Matches	Score 56.3%; Conservative	Pred. No. 0;	Mismatches 62;	Indels 0;	Gaps 0;
QY	181	TATGTAAAGATTAATAAAGAATAATTGGCATCATGATGAAGAAAATATGACCGATGT	240					
Db	139003	TATTTAAAAAACAGAGAAATGTTTTATTATGCATTAAGAAATTAAGAAAAATCTGCCATTTAA	139062					
QY	241	GGTGAACAATGTTTTGCTCTTTTATTATATAGATCAGTCGTCTTTTAAATTAGAAATT	300					
Db	139063	AATTAGCCAGATTTTATTAATTTTTTAAATTTTTTAATTCACACTATTTAAATTTAAAAAAT	1391222					
QY	301	TAAATTTGTTTGTTTATTTATA	322					
Db	139123	TAAATAGGTTTGTTTGTTTAA	139144					

```

RESULT 7
US-10-995-561-13390/C
; Sequence 13390, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13390
; LENGTH: 25458
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13390

Query Match          2.8%; Score 42.6; DB 6; Length 25458;
Best Local Similarity 59.5%; Pred. No. 2;
Matches 72; Conservative 0; Mismatches 49; Indels 0; Gaps 0

```



```

US-11-121-086-18/c
; Sequence 18, Application US/11121086
; Publication No. US20050266459a1
; GENERAL INFORMATION:
; APPLICANT: FOULSEN, TIM S.
; APPLICANT: NIELSEN, KRISTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138, 6000-00000
; CURRENT APPLICATION NUMBER: US/11/121, 086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 175023
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-18

```

Query Match Similarity	2.8%	Score 42	DB 7	Length 175023
Best Local Similarity	59.0%	Pred. No. 9	9	
Matches	72	Conservative	0	Mismatches 50
				Indels 0
				Gaps 0
QY	743	CGTCTTATTCACATCGCATCTCTTGATGGGTGCTGCTACTCATTCACATCGTGGTCTCTCA	802	
Db	123590	CTTCCCTCCCCCTCCCTCCCATCCCGGCTCCCTCCCTCTCTCCCTCCCATCCCC	123531	
QY	803	CTCTTCATTCATTCACATCGCATCCCCCTTCCCTCTTGAGCCCTTCCCGCCTCCTTCCCTCT	862	
Db	123530	CTCCCTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC	123471	
QY	863	TC	864	
Db	123470	TC	123469	

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RESULT 12
US-11-121-086-44
; Sequence 44, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: NIELSEN, TIM S.
; APPLICANT: NIELSEN, KRISTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO. 44
;
; LENGTH: 167116
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
US-11-121-086-44

```

[illegible]

RESULT 13
US-11-121-086-1/c

```

? Sequence 1, Application US/11121086
? Publication No. US20050266459a1
? GENERAL INFORMATION:
? APPLICANT: POULSEN, TIM S.
? TITLE OF INVENTION: NUCLEAR ACID PROBES AND NUCLEIC ACID ANALOG PROBES
? FILE REFERENCE: 09138.6000-00000
? CURRENT APPLICATION NUMBER: US/11/121.086
? CURRENT FILING DATE: 2005-05-04
? PRIOR APPLICATION NUMBER: 60/567,570
? PRIOR FILING DATE: 2004-05-04
? NUMBER OF SEQ ID NOS: 107
? SOFTWARE: PatentIn version 3.3
? SEQ ID NO 1
? LENGTH: 126552
? TYPE: DNA
? ORGANISM: Homo sapiens
? US-11-121-086-1

```

	Query Match	2.7%	Score 41	DB 7	Length 126552	
	Best Local Similarity	57.4%	Pred. No. 15	Mismatches 55	Indels 0	Gaps 0
	Matches	74	Conservative	0		
Qy	739 TCAGACGCTTATCCACTCGCATCTCTTGATGGAGTCGTCACTCACCACCTGCCTCCT					798
Dd	122491 TCTCTCCCATCTCCCCCTTCCTCTCCGCCCTCCTCAGCATCTCCCTCCTCCTCCCTCCT					122432
Qy	799 CTCACTCTCTCACTGCATTCACACTCGCATTCGCCCTCTGCCCTCTCTCCGCCCTCTCC					858
Dd	122431 CCCCAGATCTGCCCTCTCTCTCCCACTCCTCTCTCCATTCTCTTCCTCTCCCTCTCTCC					122372
Qy	859 TTCCTTCTCC					867
Dd	122371 TCACCTTCC					122363

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RESULT 14
US-11-121-086-2/c
; Sequence 2, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: NIELSEN, TIM S.
; APPLICANT: NIELSEN, KRISTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
;
; LENGTH: 191684
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
US-11-121-086-2

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Query Match	2.7%	Score 41	DB 7	Length 191684
Best Local Similarity	57.4%	Pred. No. 19	Mismatches 55	Indels 0
Matches	74	Conservative 0	Gaps 0	
Qy	739	TCGACGCTCTTATCCACTGCAGATCTTATATGAGTGCCTTAACCTGATCCAGTCTCT		798
Db	27772	TCTCTCCCATCTCTCCCTCTCTCCGCCGCTCCATCTCCATCTCCTCTCTCCCTCTCT		27713
Qy	799	CTCATCTCTCACTCCATCCATCCGATATCCCCCTCTCCCTCTGAGCCCTTCTCCGGCTCTCC		858
Db	27712	CCCCCATCTCCCCCTCTCTCCGCACCTCTCCCTCATTTCTCTTCTCTCTCTCTCTCTCC		27653
Qy	859	TCTCTTCTCC 867		
Db	27652	TCACCTCTCC 27644		

Db 27652 TCACCCCTCC 27644

RESULT 15
US-10-750-185-36944/c
; Sequence 36944, Application US/10750185
; Publication No. US200502603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36944
; LENGTH: 1608
; TYPE: DNA
; ORGANISM: Bovine 1986681610720
US-10-750-185-36944

Query Match 2.7%; Score 40.8; DB 6; Length 1608;
Best Local Similarity 52.3%; Pred. No. 0.98;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY	155	TCCTCTAAGACCTGACATATTTTAAATATGTAAAGATTAAGAAATAATGGGATC	214
DB	706	TTTGAACCAACACAAAAATTGCAGAAAGATGAGAGATGTAGAGAGCTATTCTAAG	647
QY	215	ATGATGAAGAAATAATATGACCGATGTGTGAGACATGTTTCGTCCTTTTAAATAGA	274
DB	646	CTTTAATAAGTACTTTGAATATATTTGAGATTAATGAGAAATAATTTGTAATTATGA	587
QY	275	TCACGTCTCTTTTAAATAGAAATTAATTGTTGTTTAAATAGAAA	326
DB	586	TCATAATACTTATGATTAATGAGATTGAAAGCATATTTATATATATATATAAAAA	535

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Job time : 274 secs